

1027477

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Power connector, Power, 5-position, shielded, Plug straight M12, coding: L, Crimp connection, knurl material: Zinc die-cast, tin-plated, external cable diameter 8 mm ... 13 mm, without crimp contacts

#### Your advantages

- · Extremely compact, thanks to the small wiring space and high contact density
- · Safely shielded: reliable shield connection even under extreme mechanical strain
- · Robust connection: suitable for railway applications with high shock and vibration loads
- High-performance: DC connectors for up to 16 A and 63 V DC
- · Protection against mismatching, thanks to special L-coding

#### Commercial data

Item number	1027477
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF34
Product key	BF2CJB
Catalog page	Page 278 (C-2-2019)
GTIN	4055626521138
Weight per piece (including packing)	41.3 g
Weight per piece (excluding packing)	41.1 g
Customs tariff number	85366990
Country of origin	DE



1027477

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### Technical data

#### Notes

General	NOTE: Observe the permissible bending radii when laying conductors, since the degree of protection may be put in jeopardy if the bending forces are too high. Alleviate mechanical loads upstream of the connector, e.g. by using cable ties.
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#### Product properties

Product type	Circular connector (cable-side)
Sensor type	Power
Number of positions	5
Application	Power supply
No. of cable outlets	1
Shielded	yes
Coding	L
Cable outlet	straight
Insulation characteristics	

Overvoltage category	III
Degree of pollution	3

#### **Dimensions**

Dimensional drawing	58 60 17.//
Length	58 mm
External dimensions	
Outside diameter	8 mm 13 mm
Housing	
Diameter housing	21.5 mm
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#### Material specifications

Flammability rating according to UL 94	V0
Material of grip body	Zinc die-cast, nickel-plated
Contact carrier material	PA
Material for screw connection	Zinc die-cast, tin-plated

#### Connection data

#### Conductor connection

Connection method	Crimp connection



1027477

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Contact   Color (signal designation)   Contact (optional)		
M12 knurl	Connection cross section	1.5 mm² 2.5 mm² (flexible)
Pin assignment         1 = BN           2 = WH         3 = BU           4 = BK         FE = GYPK           Rated surge voltage           Insulation resistance         ≥ 100 MQ           Nominal voltage U <sub>N</sub> 63 V DC           Nominal current I <sub>N</sub> 16 A (when using 2.5 mm² conductors)           16 A (at 40 °C)         16 A (at 40 °C)    **Connection 1  **Head design Plug  Head cable outlet straight  Head thread type  **Coding L  **Coding L  **Signal type/category Power  **Designal type/category Power  **Desig	Connection cross section AWG	14 (flexible)
Pin assignment    Contact   Color (signal designation)   Contact (optional)	Tightening torque	M12 knurl
Contact   Color (signal designation)   Contact (optional)   1 = BN   2 = WH   3 = BU   4 = BK   FE = GYPK		Pressure nut with coupling sleeve
2 = W/H     3 = BU     4 + BK     FE = GYPK	Pin assignment	
3 = BU 4 = BK FE = GYPK  ectrical properties  Rated surge voltage 1.5 kV Insulation resistance ≥ 100 MΩ Nominal voltage U <sub>N</sub> 63 ∨ DC Nominal current I <sub>N</sub> 16 A (when using 2.5 mm² conductors) 16 A (at 40 °C)  echanical properties  Mechanical data Insertion/withdrawal cycles ≥ 100  onnector  Connection 1 Head design Plug Head dable outlet straight Head thread type M12 Coding L  Signal type/category Power  nvironmental and real-life conditions  Ambient conditions  Degree of protection 1P65 Anbient temperature (operation) 40 °C 85 °C (Plug / socket)  tandards and regulations  Standard designation M12 connector	Contact   Color (signal designation)   Contact (optional)	1 = BN
4 = BK FE = GYPK  ectrical properties  Rated surge voltage 1.5 kV Insulation resistance ≥ 100 MΩ Nominal voltage U <sub>N</sub> 63 ∨ DC Nominal current I <sub>N</sub> 16 A (when using 2.5 mm² conductors) 16 A (at 40 °C)  echanical properties  Mechanical data Insertion/withdrawal cycles ≥ 100  connector  Connection 1  Head design Plug Head cable outlet straight Head other outlet straight Head thread type M12 Coding L  Signal type/category Power  signal type/category Power  nvironmental and real-life conditions  Ambient conditions  Degree of protection IP65 Ambient temperature (operation) -40 °C 85 °C (Plug / socket)  andards and regulations  Standard designation M12 connector		2 = WH
FE = GYPK  lectrical properties  Rated surge voltage 1.5 kV		3 = BU
ectrical properties  Rated surge voltage 1.5 kV Insulation resistance ≥ 100 MΩ Nominal voltage U <sub>N</sub> 63 V DC Nominal current I <sub>N</sub> 16 A (when using 2.5 mm² conductors) 16 A (at 40 °C)  echanical properties  Mechanical data Insertion/withdrawal cycles ≥ 100  connector  Connection 1  Head design Plug Head cable outlet straight Head thread type M12 Coding L  Signal type/category Power  nvironmental and real-life conditions  Ambient conditions  Degree of protection IP65 Ambient temperature (operation) 1P65 Ambient and regulations  Standard designation M12 connector		4 = BK
Rated surge voltage		FE = GYPK
Insulation resistance  Nominal voltage U <sub>N</sub> Nominal current I <sub>N</sub> 16 A (when using 2.5 mm² conductors)  16 A (at 40 °C)  echanical properties  Mechanical data Insertion/withdrawal cycles  onnector  Connection 1  Head design  Head cable outlet  Head thread type  Coding  L  able/line  Signal type/category  Power  Power  Power  Power  Norinconditions  Degree of protection  Ambient temperature (operation)  Landards and regulations  Standard designation  M12 connector	ectrical properties	
Nominal voltage U <sub>N</sub> Nominal current I <sub>N</sub> 16 A (when using 2.5 mm² conductors)  16 A (at 40 °C)  echanical properties  Mechanical data  Insertion/withdrawal cycles  connector  Connection 1  Head design  Head cable outlet  Head thread type  Coding  L  Signal type/category  Power  Power  Nvirronmental and real-life conditions  Ambient conditions  Degree of protection  Ambient temperature (operation)  andards and regulations  Standard designation  M12 connector	Rated surge voltage	1.5 kV
Nominal current IN  16 A (when using 2.5 mm² conductors)  16 A (at 40 °C)  echanical properties  Mechanical data  Insertion/withdrawal cycles  Donnector  Connection 1  Head design  Head cable outlet  Head thread type  Coding  L  able/line  Signal type/category  Power  Power  Ambient conditions  Degree of protection  Ambient temperature (operation)  Standard designation  M12 connector	Insulation resistance	≥ 100 MΩ
echanical properties  Mechanical data  Insertion/withdrawal cycles ≥ 100  Connector  Connection 1  Head design Plug  Head cable outlet straight  Head thread type M12  Coding L  Signal type/category Power  Invironmental and real-life conditions  Ambient conditions  Degree of protection IP65  Ambient temperature (operation) H12 connector	Nominal voltage U <sub>N</sub>	63 V DC
echanical properties  Mechanical data  Insertion/withdrawal cycles  Inser	Nominal current I <sub>N</sub>	16 A (when using 2.5 mm² conductors)
Mechanical data Insertion/withdrawal cycles  connector  Connection 1  Head design  Head cable outlet  Head thread type  Coding  L  able/line  Signal type/category  Power  Power  Ambient conditions  Degree of protection  Ambient temperature (operation)  Standard sand regulations  Standard designation  M12 connector		16 A (at 40 °C)
Connection 1  Head design Plug  Head cable outlet straight  Head thread type M12  Coding L  able/line  Signal type/category Power  nvironmental and real-life conditions  Ambient conditions  Degree of protection IP65  Ambient temperature (operation) -40 °C 85 °C (Plug / socket)  tandards and regulations  Standard designation M12 connector		≥ 100
Head design Plug Head cable outlet straight Head thread type M12 Coding L  able/line Signal type/category Power  nvironmental and real-life conditions  Ambient conditions Degree of protection IP65 Ambient temperature (operation) IP65  tandards and regulations  Standard designation M12 connector	onnector	
Head cable outlet Head thread type  Coding  L  able/line  Signal type/category  Power  nvironmental and real-life conditions  Ambient conditions  Degree of protection  Ambient temperature (operation)  and ards and regulations  Standard designation  M12 connector	Connection 1	
Head thread type  Coding  L  able/line  Signal type/category  Power  nvironmental and real-life conditions  Ambient conditions  Degree of protection  Ambient temperature (operation)  and and regulations  Standard designation  M12  M12  M12  Coding  Home  Power  Power  Power  Power  M12  Ambient conditions  IP65  Ambient temperature (operation)  M12 connector	Head design	Plug
Coding  able/line  Signal type/category  Power  nvironmental and real-life conditions  Ambient conditions  Degree of protection  Ambient temperature (operation)  1P65  Ambient temperature (operation)  1P65  Ambient designation  Standard designation  M12 connector		
Signal type/category  Power  nvironmental and real-life conditions  Ambient conditions  Degree of protection  Ambient temperature (operation)  IP65  Ambient temperature (operation)  IP65  Ambient designation  Standard designation  M12 connector		M12
Signal type/category  Power  nvironmental and real-life conditions  Ambient conditions  Degree of protection  Ambient temperature (operation)  tandards and regulations  Standard designation  Power  Power  Power  Number 1  Power  IP65  Ambient temperature (operation)  -40 °C 85 °C (Plug / socket)  M12 connector	Coding	L
Ambient conditions  Degree of protection  Ambient temperature (operation)  Ambient temperature (operation)  Eandards and regulations  Standard designation  M12 connector	able/line	
Ambient conditions  Degree of protection IP65 Ambient temperature (operation)  tandards and regulations  Standard designation  M12 connector	Signal type/category	Power
Degree of protection IP65  Ambient temperature (operation) -40 °C 85 °C (Plug / socket)  tandards and regulations  Standard designation M12 connector	nvironmental and real-life conditions	
Ambient temperature (operation)  -40 °C 85 °C (Plug / socket)  tandards and regulations  Standard designation  M12 connector	Ambient conditions	
Ambient temperature (operation)  -40 °C 85 °C (Plug / socket)  tandards and regulations  Standard designation  M12 connector	Degree of protection	IP65
Standard designation M12 connector		-40 °C 85 °C (Plug / socket)
Standard designation M12 connector	andards and regulations	
	-	M12 connector
	Standards/specifications	



1027477

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### Classifications

UNSPSC 21.0

#### **ECLASS**

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116
ETIM	
ETIM 9.0	EC002635
UNSPSC	

39121400



1027477

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### Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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